

FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO.	APPLICATION NO.			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT						MASIMO.007C2	08/943,511			
						APPLICANT	RECEIVED			
		M. Diab et al.								
		FILING DATE				GROUP 1 C 1990				
		October 6, 1997				Unknown				
U.S. PATENT DOCUMENTS										
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME			CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SR		4 8 0 0 4 9 5	1/24/89	Smith						
SR		4 8 2 4 2 4 2	4/25/89	Frick et al.						
SR		4 8 6 3 2 6 5	9/5/89	Flower et al.						
SR		4 8 6 7 5 7 1	9/19/89	Frick et al.						
SR		4 8 9 2 1 0 1	1/9/90	Cheung et al.						
SR		4 9 0 7 5 9 4	3/13/90	Muz						
SR		4 9 1 1 1 6 7	3/27/90	Corenman et al.						
SR		4 9 2 8 6 9 2	5/29/90	Goodman et al.						
SR		4 9 5 5 3 7 9	9/11/90	Hall						
SR		5 0 5 7 6 9 5	10/15/91	Hirao et al.						
FOREIGN PATENT DOCUMENTS										
		DOCUMENT NUMBER	DATE	COUNTRY			CLASS	SUBCLASS	TRANSLATION	
									YES	NO
OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)										
L	1.	Rabiner, Lawrence et al. <u>Theory and Application of Digital Signal Processing</u> , p. 260, 1975.								
	2.	Tremper, Kevin et al., <u>Advances in Oxygen Monitoring</u> , pp. 137-153, 1987.								
L	3.	Harris, Fred et al., "Digital Signal Processing with Efficient Polyphase Recursive All-Pass Filters", Presented at International Conference on Signal Processing, Florence, Italy, Spet. 4-6, 1991. 6 pages.								
	4.	Haykin, Simon, <u>Adaptive Filter Theory</u> , Prentice Hall, Englewood Cliffs, NJ, 1985.								
L	5.	Widrow, Bernard, <u>Adaptive Signal Processing</u> , Prentice Hall, Englewood Cliffs, NJ 1985.								
EXAMINER				DATE CONSIDERED						
S L				11/3/88						
<p>*EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.</p>										

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				M. Diab et al.			
				FILING DATE	GROUP		
				October 6, 1997	Unknown		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>sr</i>		5 2 7 3 0 3 6	12/28/93	Kronberg et al.			
<i>sr</i>		3 6 4 7 2 9 9	3/7/72	Lavallee			
<i>sr</i>		3 7 0 4 7 0 6	12/5/72	Herczfeld et al.			
<i>sr</i>		4 0 6 3 5 5 1	12/20/77	Sweeney			
<i>sr</i>		4 0 8 6 9 1 5	5/2/78	Kofsky et al.			
<i>sr</i>		4 0 9 5 1 1 7	6/13/78	Nagy			
<i>sr</i>		4 4 0 7 2 9 0	10/4/83	Wilber			
<i>sr</i>		4 5 3 7 2 0 0	8/27/85	Widrow			
<i>sr</i>		4 6 4 9 5 0 5	3/10/87	Zinser, Jr. et al.			
<i>sr</i>		4 7 7 3 4 2 2	9/27/88	Isaacson et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
							NO
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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)							
<i>✓</i>	6.	Brown, David P., "Evaluation of Pulse Oximeters using Theoretical Models and Experimental Studies", Master's thesis, University of Washington, 11/25/87, pp. 1-142.					
<i>✓</i>	7.	Cohen, Arnon, "Volume I" Time and Frequency Domains Analysis", Biomedical Signal Processing, CRC Press, Inc., jBoca Raton, Florida, pp. 152-159.					
<i>✓</i>	8.	Severinghaus, J.W., "Pulse Oximetry Uses and Limitations", pp. 1-4, ASA Convention, New Orleans, 1989.					
<i>✓</i>	9.	Mook, G.A., et al., "Spectrophotometric determination of Oxygen saturation of blood independent of the presence of indocyanine green", Cardiovascular Research, Vol. 13, pp. 233-237, 1979.					
EXAMINER				DATE CONSIDERED			
<i>EL-</i>				11/3/98			
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		INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICANT	
		(USE SEVERAL SHEETS IF NECESSARY)				Diab et al.	
		MAR 6 1998 5C41 PATENT & TRADEMARK OFFICE				FILING DATE	GROUP
						October 6, 1997	Unknown

U.S. PATENT DOCUMENTS								
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
SP		4 7 9 9 4 9 3	1/24/89	Default				
SP		4 8 4 8 9 0 1	7/18/89	Hood, Jr.				
SP		4 8 6 0 7 5 9	8/29/89	Kahn et al.				
SP		4 8 6 9 2 5 3	9/26/89	Craig, Jr. et al.				
SP		4 8 6 9 2 5 4	9/26/89	Stone et al.				
SP		4 8 8 3 3 5 3	11/28/89	Hausman				
SP		4 9 2 7 2 6 4	5/22/90	Shiga et al.				
SP		4 9 4 8 2 4 8	8/14/90	Lehman				
SP		4 9 5 6 8 6 7	9/11/90	Zurek et al.				
SP		5 4 5 8 1 2 8	10/95	Polanyi et al.				

FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

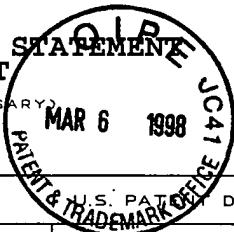
## OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

✓	10.	Neuman, Michael R., "Pulse Oximetry: Physical Principles, Technical Realization and Present Limitations", <u>Continuous Transcutaneous Monitoring</u> , Plenum Press, New York, 1987, pp. 135-144.
		Mook, G.A., et al., "Wavelength dependency of the spectrophotometric determination of blood oxygen saturation", <u>Clinical Chemistry Acta</u> , Vol. 26, pp. 170-173, 1969.
✓	12.	Klimasauskas, Casey, "Neural Nets and Noise Filtering", <u>Dr. Dobb's Journal</u> , January 1989, pg. 32.
		Melnikof, S. "Neural Networks for Signal Processing: A Case Study", <u>Dr. Dobb's Journal</u> , January 1989, pg. 36-37
✓	13.	

EXAMINER	DATE CONSIDERED
<i>CL</i>	<i>11/3/88</i>

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		October 6, 1997	Unknown



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(USE SEVERAL SHEETS IF NECESSARY) M

FOREIGN PATENT DOCUMENTS

**OTHER DOCUMENTS** : (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

4	14.	Jingzheng, Ouyang et al., "Digital Processing of High-Resolution Electrocardiograms--Detection of His-Purkinje Activity from the Body Surface", <u>Biomedizinische Technik</u> , 33, 1 October 1988, No.10, Berlin, W. Germany, pp. 224-230.
		Chen, Jiande, et al., "Adaptive System for Processing of Electrogastric Signals", <u>Images of the Twenty-First Century</u> , Seattle, WA, vol. 11, Nov. 9-12, 1989. pp. 698-699.
5	16.	Varanini, M. et al., "A Two Channel Adaptive Filtering Approach for Recognition of the QRS Morphology", <u>Proceedings of the Computers in Cardiology Meeting</u> , Venice, Sept. 23-26, 1991, Institute of Electrical and Electronics Engineers, pp. 141-144.

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